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PATENT SPECIFICATION



Application Date: Dec. 14, 1925. No. 14,460 / 27.

272,836

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PROVISIONAL SPECIFICATION.

Improvements in Imitation Fires.

We, John Charles White, of 49, Bridge Street, Deansgate, Manchester, and Hubert Ashley Dickinson, of 187, Cross Street, Sale, Manchester, 5 in the County of Lancaster, both British subjects, do hereby declare the nature of this invention to be as follows:—

The present invention relates to improvements in imitation fires usually 10 known as "electric fires", "gas fires"

and the like.

Various types of electric heat radiating devices are in general use in which radiating elements are provided for the radiation of heat energy in combination with a device to produce the semblance of a flickering coal fire.

An object of the present invention is to provide an arrangement in which the 20 flickering will be as irregular as possible to avoid any semblance of mechanical control to the eye of an observer.

According to the present invention plates or pieces of translucent glass haven ing an irregular surface which may be coloured, but are preferably colourless, are interposed in the light path.

The glass used may be for instance.

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of rolled sheet pattern window glass
30 which has a wavy or corrugated surface.
Such a sheet may be interposed between a
source of light and a revolving fan, which
revolves by reason of a heated air stream
from the said lamp, or again or addi35 tionally such sheet of glass may be
arranged on the opposite side of the fan
to the lamp element.

In a preferred construction of imitation fire, a casing is closed at the top by means of a sheet of glass having a corrugated or irregular surface which acts as a support for lumps or broken coloured glass, coal cinders or other material to imitate an actual coal fire.

Within the casing is mounted a fan 45 adapted to be rotated about its axis by a rising hot air stream from a lamp acting as a source of light at the base. This fan is preferably mounted on a door swinging about vertical hinges to allow ready 50 access to the lamp. Carried upon this door beneath the fan or alternatively carried upon a frame work permanently within the casing are arranged a plurality of glass slips having an irregular 55 surface and arranged to form a reticulated grid. This grid may be formed by a glass element having square or other holes moulded or formed in it, the crossing bars of the grid having one or both 60 surfaces irregular or again it may be formed of short slips of glass having an irregular surface and held together to form a grid by means of clips.

The fan may be of polished metal, and 65 a metal reflector may be placed below or around the lamp device.

Dated this 28th day of May, 1927.

W. P. THOMPSON & Co.,
"12, Church Street, Liverpool,
Chartered & Régistered Patent Agents.

COMPLETE SPECIFICATION.

Improvements in Imitation Fires.

We, John' Charles' White, of 49, Bridge Street, Deansgate, Manchester, and Hubert Ashley Dickenson, of 187, Cross Street, Sale, Manchester, in the County of Lancaster, both British subjects, do hereby declare the nature of [Price 1/-]

this invention and in what manner the same is to be performed, to be particularly described and ascertained in and by 80 the following statement:—

The present invention relates to improvements in imitation fires usually

and irregularly disposed about its surknown as "electric fires", "gas fires" face. Light passing from a lamp 9 either directly or after reflection by the reflector and the like. Various types of heat radiating devices are in general use in which radi-10 is irregularly obturated by the fan blades 11, or by the shroud 12, and then passed through the glass sheets 13 closing the front of the casing, and which have 5 ating elements are provided for the radiation of heat energy in combination with devices such as fans rotated by upward one or both surfaces irregular to further currents of heated air from a lamp and refract or reflect the light, these glass intercepting the light therefrom previous 10 to passage through irregularly surfaced sheets being in spaced relationship with the sheet or sheets of glass 7 i.e. the sheets and coloured glass or other plates to produce the semblance of a flickering coal of glass 7, 13 are so disposed that light passes through such spaced sheets in An object of the present invention is succession. 15 to provide an arrangement in which the An electric fire of similar construction is described in our copending Application flickering will be as irregular as possible 31,447/25 (272362) of even date which to avoid any semblance of mechanical control to the eye of an observer. however claims different features. Having now particularly described and The fire according to the present inven-20 tion comprises in combination a casing, a ascertained the nature of our said inven-, source of light, and one or more impertion and in what manner the same is to forated sheets of translucent glass having be performed, we declare that what we an irregular surface arranged in spaced claim is:-1. An "imitation fire" comprising in relationship with one or more further 25 imperforated sheets of glass also having combination a casing, a source of light, and one or more imperforated sheets of an irregular surface, and with said source of light, the arrangement being such that translucent glass having an irregular surthe light passes through the spaced sheets face arranged in spaced relationship with one or more further imperforated sheets in succession. of glass also having an irregular surface, A revolving fan to produce a flicker and with said source of light, the arrange- . 95 ment being such that the light passes effect may be interposed between the source of light and the sheet of glass havthrough the spaced sheets in succession ing an irregular surface nearest to the said source of light, or may alternatively substantially as described. 2. An "imitation fire" as claimed in 35 be interposed between the two sheets of glass having an irregular surface. Claim 1 in which a rotating fan is inter- 100 The invention is more particularly posed in the light stream from the said described with reference to the accomsource of light, substantially as described. 3. An "imitation fire" as claimed in Claims 1 and 2 in which the fan is adapted to be rotated from the uprising 105 panying drawings in which:-Fig. 1 is a sectional elevation of one suitable form of "electric fire" Fig. 2 is a corresponding front view. An "electric fire" comprises a casing 1 of any suitable form having electric stream of heated air from said source of light, substantially as described. 4, An "imitation fire" as claimed in Claims 1 and 2 in which the fan is 45 heat radiating elements 2, 3, the casing arranged between the source of light and 110 being enclosed in front by a sheet of plain glass 4 behind which pieces of broken glass 5, which if desired, may be coloured, the sheet of glass having an irregular surface nearest to the said source of light, and in spaced relationship with are arranged and which can be held in these elements, substantially as described.
5. An "imitation fire" as claimed in 115 50 place by means of a wire mesh work 6. The broken pieces of glass 5 may also Claim I in which a rotary screen having cover in the top of the casing where they lie above a sheet or sheets of glass 7 havirregularly shaped and disposed perforaing one or both sides irregular, so that tions is arranged between the lamp and 55 light passing therethrough is irregularly one of the sheets of translucent glass havrefracted and reflected.
Within the "fire" is arranged a ing an irregular surface and in spaced 120 relationship with said lamp and sheet of separate and detachable casing 8 forming glass, substantially as described. a support for an electric lamp 9 and also for a reflector 10 for the light from the Dated this 28th day of May, 1927. lamp 9, which also acts as a support or W.P. THOMPSON & Co., pivot for a fan 11 formed with or carry-: 12, Church Street, Liverpool, 125 ing a cylindrical shroud 12, which is pro-Chartered & Registered Patent Agents. vided with perforations of irregular size

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